

ISOMORPHISM METHOD AND APPARATUS

ABSTRACT OF DISCLOSURE

Disclosed is an algorithm and a computation system that,
5 when using the stated simplification approach, can heuristically
or iteratively determine identicalness of two electric circuits
by setting a minimum network scope value and: FIRST, generating
signatures defining interconnected circuit components of the set
scope value and having a prime vertex; SECOND, determining which
10 of those signatures are unique to a source circuit; THIRD,
eliminating from further consideration unique signature vertices
that match with a signature in the target circuit; and FOURTH,
moving to an identicalness discrepancy list those unique
signature vertices that do not match. Then, repeating the
15 process with incremented scope values until only symmetrical and
unevaluated vertices remain to be matched or added to the
discrepancy list.